PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 062002-2910	FOR FURTHER ACTION		Form PCT/ISA/220 re applicable, item 5 below.			
International application No. PCT/US04/38021	International filing date (day 15 November 2004 (15.11.2)	/month/year) 2004)	(Earliest) Priority Date (day/month/year) 13 November 2003 (13.11.2003)			
Applicant GEORGIA TECH RESEARCH CORPOR	ATION					
according to Article 18. A copy is being This international search report consists	g transmitted to the Internati	onal Bureau.	ithority and is transmitted to the applicant			
			in die reperi			
Basis of the Report a. With regard to the language, the language in which it was filed, u	e international search was carr inless otherwise indicated und	ied out on the barer this item.	sis of the international application in the			
furnished to this Autho	ority (Rule 23.1(b)).		ation of the international application			
b. With regard to any nucleot	ide and/or amino acid seque	nce disclosed in t	the international application, see Box No. 1.			
2. Certain claims were found	l unsearchable (See Box No.	II)				
3. Unity of invention is lacki	ng (See Box No. III)	•				
4. With regard to the title,	the state of the s					
the text is approved as submitted by the applicant.						
the text has been established	d by this Authority to read as	ionows.				
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5. With regard to the abstract,			·			
the text is approved as sub						
the text has been established may, within one month from	ed, according to Rule 38.2(b), om the date of mailing of this	by this Authority international sear	y as it appears in Box No. IV. The applicant ch report, submit comments to this Authority.			
6. With regard to the drawings,		is Cigura Ma 2				
a. the figure of the drawings to b		is Figure No. 2				
as suggested by the	ne applicant. S Authority, because the appli	cant failed to suo	gest a figure.			
· · · · · · · · · · · · · · · · · · ·	s Authority, because this figure					
		- John Ciminoto				
b. none of the figures is to be	e published with the abstract.					

Form PCT/ISA/210 (first sheet) (January 2004)

International application No.

PCT/US04/38021

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The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

NEW ABSTRACT

Detection systems and methods of their use are provided. An exemplary system comprises a chamber (102) for holding culture media, the chamber (102) having a cellular attachment surface (210), and a detector (104) disposed in the chamber (102) comprising a surface (214) modified with a binding agent (220) for binding a target substance wherein the detection system (104) is configured to detect interaction of the target substance with the binding agent (220). The detection can occur in either liquid or vapor phase and the subsequent action of the system is to respond in a programmed and appropriate manner to the binding event by activation of a chemical or physical responder. The system may also respond by communicating information to a control system via

Form PCT/ISA/210 (continuation of first sheet(3)) (January 2004)

International application No.

PCT/US04/38021

IPC(7) US CL According to I B. FIELD	SIFICATION OF SUBJECT MATTER : C12Q 1/04; C12M 1/34 : 435/7.2, 287.2 International Patent Classification (IPC) or to both national S SEARCHED umentation searched (classification system followed by 5/3, 7.2-7.37, 32, 33, 34, 39, 40, 287.2, 287.9; 436/5/	classification symbols)	75	
	n searched other than minimum documentation to the e			
Electronic dat	a base consulted during the international search (name	of data base and, where practicable, sear	ch terms used)	
C. DOCU	IMENTS CONSIDERED TO BE RELEVANT			
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"A" documen of particu	t defining the general state of the art which is not considered to be play relevance oplication or patent published on or after the international filing date	date and not in conflict with the appli principle or theory underlying the inv -X" document of particular relevance; the considered novel or cannot be considered when the document is taken alone	claimed invention cannot be	
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Ma Co P.C Ald	hailing address of the ISA/US ail Stop PCT, Attn: ISA/US ammissioner for Patents O. Box 1450 exandria, Virginia 22313-1450 o. (703) 305-3230	William H. Beisner Telephone No. 571-272-1700	for	

INTERNAL SEARCH REPORT

Inte onal Application No PCT/IL 98/00119

A. CLASSIF IPC 6	FICATION OF SUBJECT MATTER G01N33/543 G01N27/327			
According to	International Patent Classification(IPC) or to both national classificat	ion and IPC		
B. FIELDS	SEARCHED			
Minimum do IPC 6	cumentation searched (classification system followed by classification GOIN C12Q	n symbolis)		
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* Special categories of cited documents: T* later document published after the international filling date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the				
"E" earlier filling	dered to be of particular relevance document but published on or after the international date ent which may throw doubts on priority claim(s) or n is cited to establish the publicationdate of another	invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone		
citation other	on or other special reason (as specified) nent referring to an oral disclosure, use, exhibition or means	"Y" document of particular relevance; the cannot be considered to involve an in document is combined with one or ments, such combination being obvious in the art.	iventive step when the ore other such docu-	
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Date of the	actual completion of theinternational search	Date of mailing of the international se-	arch report	
2	28 July 1998	12/08/1998		
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer		
1	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,	Moreno, C		

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